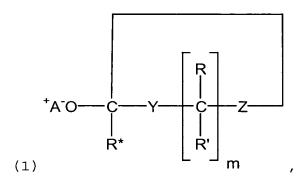
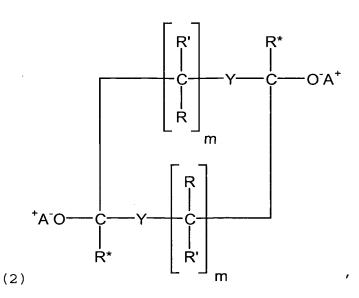
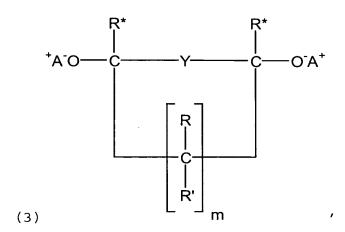
## WHAT IS CLAIMED IS:

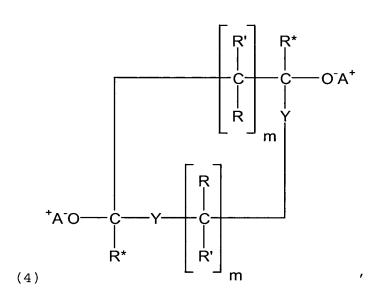
A process for synthesizing a modified silane compound which comprises reacting (I) the salt of a cyclic organic compound having a structural formula selected from the group consisting of:



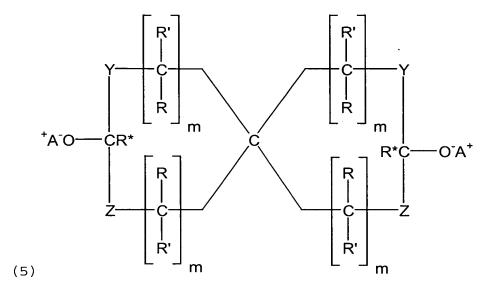
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and



wherein A represents an alkali metal atom selected from the group consisting of lithium, sodium, and potassium; wherein m represents an integer from 1 to about 20; wherein R and R' can be the same or different and are selected from the group consisting of hydrogen atoms, alkyl groups containing from 1 to about 12 carbon atoms, aryl groups containing from about 6 to about 18 carbon atoms, alkaryl groups containing from 7 to about 18 carbon atoms, and alkoxy groups containing from 1 to about 18 carbon atoms; wherein R\* is selected from the group consisting of hydrogen atoms, alkyl groups containing from 1 to about 12 carbon atoms, aryl groups containing from about 6 to about 18 carbon atoms, and alkaryl groups containing from 7 to about 18 carbon atoms; wherein R, R', and R\* can be bonded together in any combination in cases where R, R', and R\* are not hydrogen atoms; wherein Y represents a moiety selected from the group consisting of oxygen, sulfur, nitrogen, and phosphorus; wherein Z represents a moiety selected from the group consisting of C(R)R', oxygen, sulfur, nitrogen, and phosphorus; wherein the contiguous cyclic ring in formulas (1), (2), (3), (4), and (5) can contain heteroatoms

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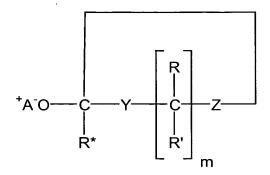
selected from the group consisting of oxygen, sulfur, nitrogen, phosphorus, and silicon in cases where m represents an integer greater than 1; wherein the contiguous cyclic ring in formulas (1), (2), (3), (4), and (5) can be saturated or unsaturated in cases where m represents an integer greater than 1; wherein said alkyl groups, aryl groups, alkaryl groups, and alkoxy groups can contain heteroatoms selected from the group consisting of oxygen, sulfur, nitrogen, phosphorus, and silicon; with (II) a silicon containing compound of the structural formula:

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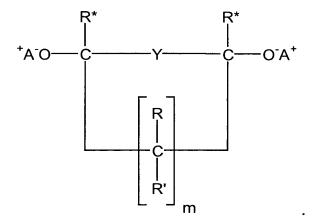
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## R"<sub>4-n</sub>SiA'<sub>n</sub>

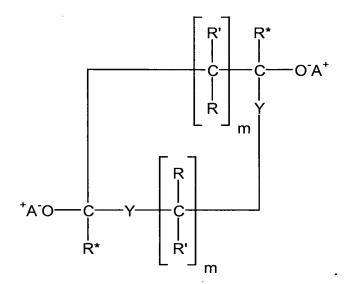
- 15 wherein n represents an integer from 1 to 4; wherein R" is selected from the group consisting of hydrogen atoms, alkyl groups containing from 1 to about 12 carbon atoms, aryl groups containing from about 6 to about 18 carbon atoms, alkaryl groups containing from 7 to about 18 carbon atoms, 20 alkoxy groups containing from 1 to about 18 carbon atoms; wherein said alkyl groups, aryl groups, alkaryl groups, and alkoxy groups can contain heteroatoms selected from the group consisting of oxygen, sulfur, nitrogen, phosphorus, and silicon; wherein A' represents a halide atom selected 25 from the group consisting of fluorine, chlorine, bromine, and iodine; wherein said process is conducted at a temperature which is within the range of about -100°C to about 50°C.
- 30 2. A process for synthesizing a modified silane compound as specified in claim 1 wherein the cyclic organic compound is of the structural formula:



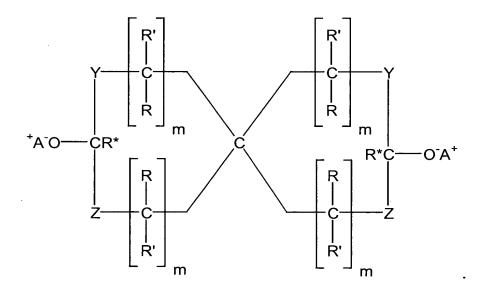
3. A process for synthesizing a modified silane5 compound as specified in claim 1 wherein the cyclic organic compound is of the structural formula:



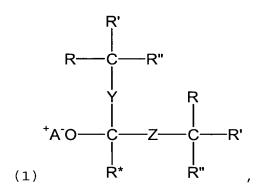
10 4. A process for synthesizing a modified silane compound as specified in claim 1 wherein the cyclic organic compound is of the structural formula:

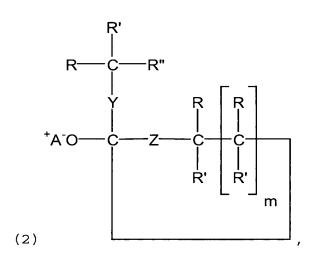


5. A process for synthesizing a modified silane5 compound as specified in claim 1 wherein the cyclic organic compound is of the structural formula:



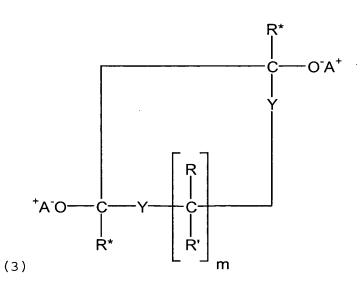
10 6. A process for synthesizing a modified silane compound which comprises reacting (I) the salt of an organic compound having a structural formula selected from the group consisting of:





and

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wherein A represents an alkali metal atom selected from the group consisting of lithium, sodium, and potassium; wherein m represents an integer from 1 to about 20; wherein R and R' can be the same or different and are selected from the 5 group consisting of hydrogen atoms, alkyl groups containing from 1 to about 12 carbon atoms, aryl groups containing from about 6 to about 18 carbon atoms, alkaryl groups containing from 7 to about 18 carbon atoms, and alkoxy groups containing from 1 to about 18 carbon atoms; wherein 10 R\* is selected from the group consisting of hydrogen atoms, alkyl groups containing from 1 to about 12 carbon atoms, aryl groups containing from about 6 to about 18 carbon atoms, and alkaryl groups containing from 7 to about 18 carbon atoms; wherein R, R', and R\* can be bonded together 15 in any combination in cases where R, R', and R\* are not hydrogen atoms; wherein Y represents a moiety selected from the group consisting of oxygen, sulfur, nitrogen, and phosphorus; wherein Z represents a moiety selected from the group consisting of C(R)R', oxygen, sulfur, nitrogen, and 20 phosphorus; wherein the contiguous cyclic ring in formulas (1), (2), and (3) can contain heteroatoms selected from the group consisting of oxygen, sulfur, nitrogen, phosphorus, and silicon in cases where m represents an integer greater than 1; wherein the contiguous cyclic ring in formulas (1), 25 (2), and (3) can be saturated or unsaturated in cases where m represents an integer greater than 1; wherein said alkyl groups, aryl groups, alkaryl groups, and alkoxy groups can contain heteroatoms selected from the group consisting of oxygen, sulfur, nitrogen, phosphorus, and silicon; with 30 (II) a silicon containing compound of the structural formula:

wherein n represents an integer from 1 to 4; wherein R" is selected from the group consisting of hydrogen atoms, alkyl groups containing from 1 to about 12 carbon atoms, aryl groups containing from about 6 to about 18 carbon atoms, alkaryl groups containing from 7 to about 18 carbon atoms, alkoxy groups containing from 1 to about 18 carbon atoms; wherein said alkyl groups, aryl groups, alkaryl groups, and alkoxy groups can contain heteroatoms selected from the group consisting of oxygen, sulfur, nitrogen, phosphorus, and silicon; wherein A' represents a halide atom selected from the group consisting of fluorine, chlorine, bromine, and iodine; wherein said process is conducted at a temperature which is within the range of about -100°C to about 50°C.

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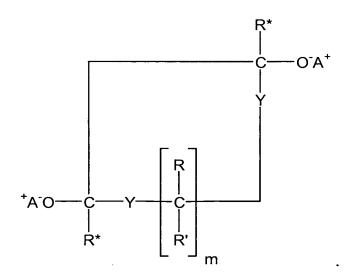
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7. A process for synthesizing a modified silane compound as specified in claim 6 wherein the organic compound is of the structural formula:

8. A process for synthesizing a modified silane compound as specified in claim 6 wherein the organic compound is of the structural formula:

9. A process for synthesizing a modified silane compound as specified in claim 6 wherein the organic compound is of the structural formula:

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- 10. A process for synthesizing a modified silane compound as specified in claim 6 wherein Y represents oxygen and wherein Z represents oxygen.
  - 11. A process for synthesizing a modified silane compound which comprises reacting (I) the salt of a cyclic hemiacetal of the structural formula:

wherein A represents an alkali metal atom selected from the group consisting of lithium, sodium, and potassium; with (II) a silicon containing compound having a structural formula selected from the group consisting of :

R"<sub>4-n</sub>SiA'<sub>n</sub>

and

A'<sub>n</sub>R"<sub>3-n</sub>SiR"SiR"<sub>3-n</sub>A'<sub>n</sub>

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wherein n represents an integer; wherein R" represents an alkyl group containing from 1 to about 10 carbon atoms; wherein A' represents a halide atom selected from the group consisting of fluorine, chlorine, bromine, and iodine; wherein said process is conducted at a temperature which is within the range of about -100°C to about 50°C.

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12. A process for synthesizing a modified silane compound which comprises reacting the sodium salt tetrahydropyran-2-ol; with silicon tetrachloride; wherein said process is conducted at a temperature which is within the range of about -100°C to about 50°C.

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13. A process as specified in claim 1 wherein R, R', and R\* are selected from the group consisting of hydrogen atoms and alkyl groups containing from 1 to about 4 carbon atoms.

- 14. A process as specified in claim 1 wherein R, R', and R\* represent hydrogen atoms.
- 15. A process as specified in claim 1 wherein Y5 represents oxygen.
  - 16. A process as specified in claim 1 and wherein Z represents oxygen.
- 10 17. A process as specified in claim 12 wherein the silicon-containing compound is of the structural formula:

## R"<sub>4-n</sub>SiA'<sub>n</sub>

- 15 and wherein n represents an integer from 1 to 4.
  - 18. A process as specified in claim 1 wherein Z represents C(R)R'.
- 20 19. A process as specified in claim 1 wherein A' represents chlorine.
  - 20. A process as specified in claim 12 wherein the silicon containing compound is of the structural formula:

A'<sub>n</sub>R"<sub>3-n</sub>SiR"SiR"<sub>3-n</sub>A'<sub>n</sub>

and wherein n represents an integer from 1 to 3.